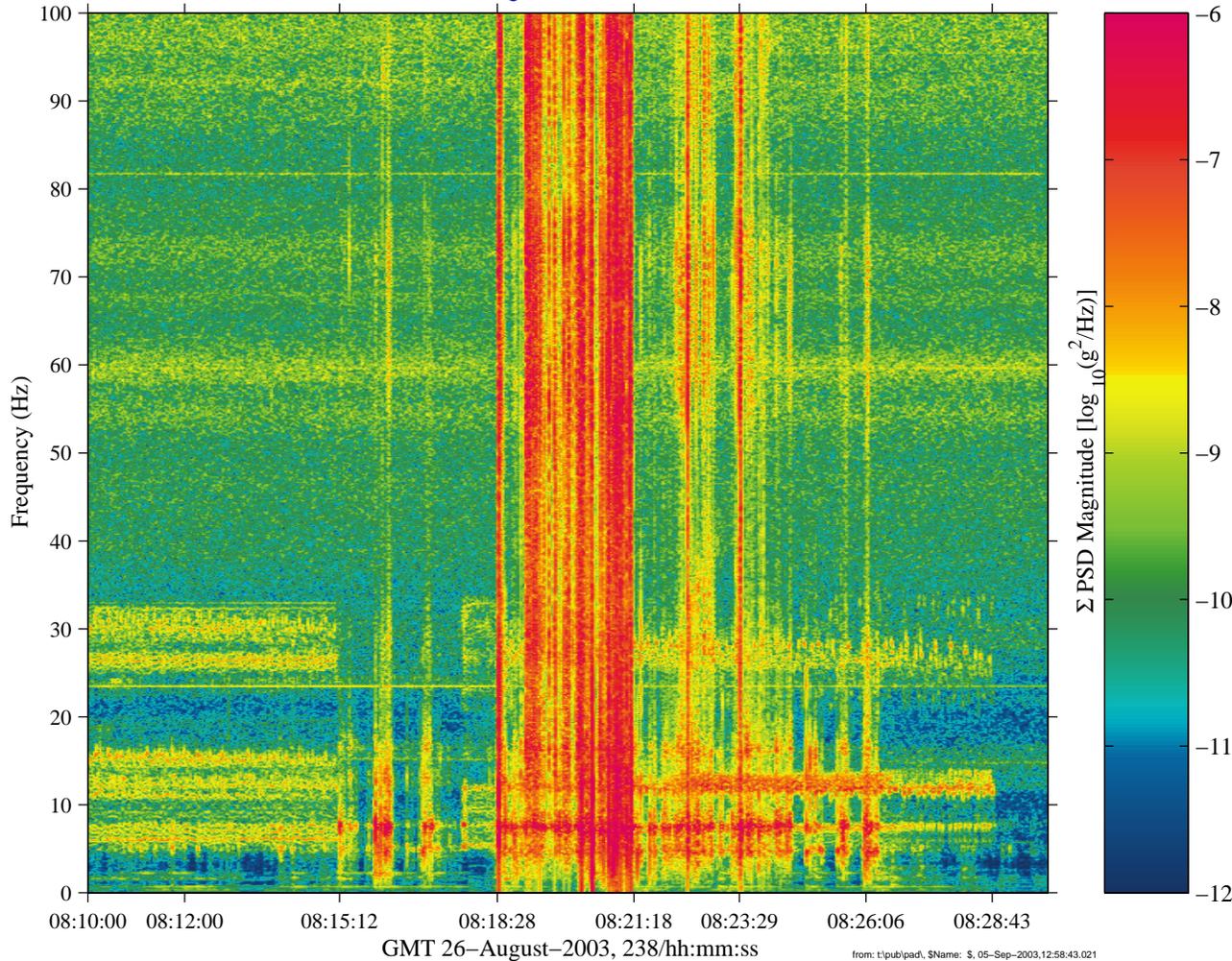


# SAMS Filter Cleaning Qualify

mams, hirap at LAB1O2, ER1, Lockers 3,4:[138.68 -16.18 142.35]  
 1000.0000 sa/sec (100.00 Hz)  
 $\Delta f = 0.122$  Hz, Nfft = 8192  
 Temp. Res. = 2.048 sec, No = 6144

**SAMS Filter Cleaning**  
 Start GMT 26-August-2003, 238/08:10:00.000

Increment: 7, Flight: 6S  
 Sum  
 Hanning, k = 583  
 Span = 19.87 minutes



| Data Description |   |
|------------------|---|
| Sensor           | MAMS HiRAP<br>100.0 sa/sec (1000.00 Hz) |
| Location         | LAB1O2, ER1, Lockers 3,4                |
| Inc/Flight       | Increment: 7 Flight: 6S                 |
| Plot Type        |   |

**Notes:**  
 Periodic SAMS drawer filter cleanings are required for maintenance and to help ensure ongoing vibratory acceleration measurement and data collection. During this activity, the normal course of events is as follows:

- ground command powers off all 3 drawers
- crew cleans filters on all 3 drawers during the same session by pulling each drawer out 5 or 8 inches and removing any debris with gray tape or the vacuum
- crew reinserts drawers and mates any cables that may have needed to be moved
- crew powers up interim control unit and laptop
- ground powers on RTS drawers

Since SAMS was powered off for this cleaning, the event had to be characterized by another accelerometer system. In this case, MAMS HiRAP was used.



|           |                      |
|-----------|----------------------|
| Regime:   | Transient            |
| Category: | Crew                 |
| Source:   | SAMS Filter Cleaning |



Microgravity Science Division



PIMS ISS Acceleration Handbook  
 Date last modified 9/9/03



Glenn Research Center

